```
atg agt aat aaa aac gtc aat gta agg aaa tcg cag gaa ata aca ttc      48
Met Ser Asn Lys Asn Val Asn Val Arg Lys Ser Gln Glu Ile Thr Phe
 1               5                  10                  15

tgc ttg ctg gca ggt atc ctg atg ttc atg gca atg atg gtt gcc gga      96
Cys Leu Leu Ala Gly Ile Leu Met Phe Met Ala Met Met Val Ala Gly
            20                  25                  30

cgc gct gaa gcg gga gtg gcc tta ggt gcg act cgc gta att tat ccg     144
Arg Ala Glu Ala Gly Val Ala Leu Gly Ala Thr Arg Val Ile Tyr Pro
        35                  40                  45

gca ggg caa aaa caa gtg caa ctt gcc gtg aca aat aat gat gaa aat     192
Ala Gly Gln Lys Gln Val Gln Leu Ala Val Thr Asn Asn Asp Glu Asn
    50                  55                  60

agt acc tat tta att caa tca tgg gtg gaa aat gcc gat ggt gta aag     240
Ser Thr Tyr Leu Ile Gln Ser Trp Val Glu Asn Ala Asp Gly Val Lys
65                  70                  75                  80

gat ggt cgt ttt atc gtg acg cct cct ctg ttt gcg atg aag gga aaa     288
Asp Gly Arg Phe Ile Val Thr Pro Pro Leu Phe Ala Met Lys Gly Lys
                85                  90                  95

aaa gag aat acc tta cgt att ctt gat gca aca aat aac caa ttg cca     336
Lys Glu Asn Thr Leu Arg Ile Leu Asp Ala Thr Asn Asn Gln Leu Pro
            100                 105                 110

cag gac cgg gaa agt tta ttc tgg atg aac gtt aaa gcg att ccg tca     384
Gln Asp Arg Glu Ser Leu Phe Trp Met Asn Val Lys Ala Ile Pro Ser
        115                 120                 125

atg gat aaa tca aaa ttg act gag aat acg cta cag ctc gca att atc     432
Met Asp Lys Ser Lys Leu Thr Glu Asn Thr Leu Gln Leu Ala Ile Ile
    130                 135                 140

agc cgc att aaa ctg tac tat cgc ccg gct aaa tta gcg ttg cca ccc     480
Ser Arg Ile Lys Leu Tyr Tyr Arg Pro Ala Lys Leu Ala Leu Pro Pro
145                 150                 155                 160

gat cag gcc gca gaa aaa tta aga ttt cgt cgt agc gcg aat tct ctg     528
Asp Gln Ala Ala Glu Lys Leu Arg Phe Arg Arg Ser Ala Asn Ser Leu
                165                 170                 175

acg ctg att aac ccg aca ccc tat tac ctg acg gta aca gag ttg aat     576
Thr Leu Ile Asn Pro Thr Pro Tyr Tyr Leu Thr Val Thr Glu Leu Asn
            180                 185                 190
```

FIG.1A-1

```
gcc gga acc cgg gtt ctt gaa aat gca ttg gtg cct cca atg ggc gaa      624
Ala Gly Thr Arg Val Leu Glu Asn Ala Leu Val Pro Pro Met Gly Glu
        195                 200                 205

agc acg gtt aaa ttg cct tct gat gca gga agc aat att act tac cga      672
Ser Thr Val Lys Leu Pro Ser Asp Ala Gly Ser Asn Ile Thr Tyr Arg
    210                 215                 220

aca ata aat gat tat ggc gca ctt acc ccc aaa atg acg ggc gta atg      720
Thr Ile Asn Asp Tyr Gly Ala Leu Thr Pro Lys Met Thr Gly Val Met
225                 230                 235                 240

gaa taa                                                             726
Glu
```

FIG.1A-2

```
Met Ser Asn Lys Asn Val Asn Val Arg Lys Ser Gln Glu Ile Thr Phe
 1               5                  10                  15
Cys Leu Leu Ala Gly Ile Leu Met Phe Met Ala Met Met Val Ala Gly
            20                  25                  30
Arg Ala Glu Ala Gly Val Ala Leu Gly Ala Thr Arg Val Ile Tyr Pro
        35                  40                  45
Ala Gly Gln Lys Gln Val Gln Leu Ala Val Thr Asn Asn Asp Glu Asn
    50                  55                  60
Ser Thr Tyr Leu Ile Gln Ser Trp Val Glu Asn Ala Asp Gly Val Lys
65                  70                  75                  80
Asp Gly Arg Phe Ile Val Thr Pro Pro Leu Phe Ala Met Lys Gly Lys
                85                  90                  95
Lys Glu Asn Thr Leu Arg Ile Leu Asp Ala Thr Asn Asn Gln Leu Pro
            100                 105                 110
Gln Asp Arg Glu Ser Leu Phe Trp Met Asn Val Lys Ala Ile Pro Ser
        115                 120                 125
Met Asp Lys Ser Lys Leu Thr Glu Asn Thr Leu Gln Leu Ala Ile Ile
    130                 135                 140
Ser Arg Ile Lys Leu Tyr Tyr Arg Pro Ala Lys Leu Ala Leu Pro Pro
145                 150                 155                 160
Asp Gln Ala Ala Glu Lys Leu Arg Phe Arg Arg Ser Ala Asn Ser Leu
                165                 170                 175
Thr Leu Ile Asn Pro Thr Pro Tyr Tyr Leu Thr Val Thr Glu Leu Asn
            180                 185                 190
Ala Gly Thr Arg Val Leu Glu Asn Ala Leu Val Pro Pro Met Gly Glu
        195                 200                 205
Ser Thr Val Lys Leu Pro Ser Asp Ala Gly Ser Asn Ile Thr Tyr Arg
    210                 215                 220
Thr Ile Asn Asp Tyr Gly Ala Leu Thr Pro Lys Met Thr Gly Val Met
225                 230                 235                 240
Glu
```

FIG.1B

```
atg aaa cga gtt att acc ctg ttt gct gta ctg ctg atg ggc tgg tcg      48
Met Lys Arg Val Ile Thr Leu Phe Ala Val Leu Leu Met Gly Trp Ser
    -20                 -15                 -10

gta aat gcc tgg tca ttc gcc tgt aaa acc gcc aat ggt acc gct atc      96
Val Asn Ala Trp Ser Phe Ala Cys Lys Thr Ala Asn Gly Thr Ala Ile
-5              -1  1                   5                  10

cct att ggc ggt ggc agc gcc aat gtt tat gta aac ctt gcg ccc gtc     144
Pro Ile Gly Gly Gly Ser Ala Asn Val Tyr Val Asn Leu Ala Pro Val
            15                  20                  25

gtg aat gtg ggg caa aac ctg gtc gtg gat ctt tcg acg caa atc ttt     192
Val Asn Val Gly Gln Asn Leu Val Val Asp Leu Ser Thr Gln Ile Phe
        30                  35                  40

tgc cat aac gat tat ccg gaa acc att aca gac tat gtc aca ctg caa     240
Cys His Asn Asp Tyr Pro Glu Thr Ile Thr Asp Tyr Val Thr Leu Gln
    45                  50                  55

cga ggc tcg gct tat ggc ggc gtg tta tct aat ttt tcc ggg acc gta     288
Arg Gly Ser Ala Tyr Gly Gly Val Leu Ser Asn Phe Ser Gly Thr Val
60                  65                  70                  75

aaa tat agt ggc agt agc tat cca ttt cct acc acc agc gaa acg ccg     336
Lys Tyr Ser Gly Ser Ser Tyr Pro Phe Pro Thr Thr Ser Glu Thr Pro
                80                  85                  90

cgc gtt gtt tat aat tcg aga acg gat aag ccg tgg ccg gtg gcg ctt     384
Arg Val Val Tyr Asn Ser Arg Thr Asp Lys Pro Trp Pro Val Ala Leu
            95                  100                 105

tat ttg acg cct gtg agc agt gcg ggc ggg gtg gcg att aaa gct ggc     432
Tyr Leu Thr Pro Val Ser Ser Ala Gly Gly Val Ala Ile Lys Ala Gly
        110                 115                 120

tca tta att gcc gtg ctt att ttg cga cag acc aac aac tat aac agc     480
Ser Leu Ile Ala Val Leu Ile Leu Arg Gln Thr Asn Asn Tyr Asn Ser
    125                 130                 135

gat gat ttc cag ttt gtg tgg aat att tac gcc aat aat gat gtg gtg     528
Asp Asp Phe Gln Phe Val Trp Asn Ile Tyr Ala Asn Asn Asp Val Val
140                 145                 150                 155

gtg cct act ggc ggc tgc gat gtt tct gct cgt gat gtc acc gtt act     576
Val Pro Thr Gly Gly Cys Asp Val Ser Ala Arg Asp Val Thr Val Thr
                160                 165                 170
```

FIG.1C-1

```
ctg ccg gac tac cct ggt tca gtg cca att cct ctt acc gtt tat tgt      624
Leu Pro Asp Tyr Pro Gly Ser Val Pro Ile Pro Leu Thr Val Tyr Cys
            175                 180                 185

gcg aaa agc caa aac ctg ggg tat tac ctc tcc ggc aca acc gca gat      672
Ala Lys Ser Gln Asn Leu Gly Tyr Tyr Leu Ser Gly Thr Thr Ala Asp
        190                 195                 200

gcg ggc aac tcg att ttc acc aat acc gcg tcg ttt tca cct gca cag      720
Ala Gly Asn Ser Ile Phe Thr Asn Thr Ala Ser Phe Ser Pro Ala Gln
    205                 210                 215

ggc gtc ggc gta cag ttg acg cgc aac ggt acg att att cca gcg aat      768
Gly Val Gly Val Gln Leu Thr Arg Asn Gly Thr Ile Ile Pro Ala Asn
220                 225                 230                 235

aac acg gta tcg tta gga gca gta ggg act tcg gcg gtg agt ctg gga      816
Asn Thr Val Ser Leu Gly Ala Val Gly Thr Ser Ala Val Ser Leu Gly
                240                 245                 250

tta acg gca aat tat gca cgt acc gga ggg cag gtg act gca ggg aat      864
Leu Thr Ala Asn Tyr Ala Arg Thr Gly Gly Gln Val Thr Ala Gly Asn
            255                 260                 265

gtg caa tcg att att ggc gtg act ttt gtt tat caa taa                 903
Val Gln Ser Ile Ile Gly Val Thr Phe Val Tyr Gln
        270                 275
```

FIG.1C-2

```
Met Lys Arg Val Ile Thr Leu Phe Ala Val Leu Leu Met Gly Trp Ser
    -20                 -15                 -10
Val Asn Ala Trp Ser Phe Ala Cys Lys Thr Ala Asn Gly Thr Ala Ile
-5              -1   1                   5                  10
Pro Ile Gly Gly Gly Ser Ala Asn Val Tyr Val Asn Leu Ala Pro Val
            15                  20                  25
Val Asn Val Gly Gln Asn Leu Val Val Asp Leu Ser Thr Gln Ile Phe
        30                  35                  40
Cys His Asn Asp Tyr Pro Glu Thr Ile Thr Asp Tyr Val Thr Leu Gln
    45                  50                  55
Arg Gly Ser Ala Tyr Gly Gly Val Leu Ser Asn Phe Ser Gly Thr Val
60                  65                  70                  75
Lys Tyr Ser Gly Ser Ser Tyr Pro Phe Pro Thr Thr Ser Glu Thr Pro
                80                  85                  90
Arg Val Val Tyr Asn Ser Arg Thr Asp Lys Pro Trp Pro Val Ala Leu
            95                  100                 105
Tyr Leu Thr Pro Val Ser Ser Ala Gly Gly Val Ala Ile Lys Ala Gly
        110                 115                 120
Ser Leu Ile Ala Val Leu Ile Leu Arg Gln Thr Asn Asn Tyr Asn Ser
    125                 130                 135
Asp Asp Phe Gln Phe Val Trp Asn Ile Tyr Ala Asn Asn Asp Val Val
140                 145                 150                 155
Val Pro Thr Gly Gly Cys Asp Val Ser Ala Arg Asp Val Thr Val Thr
                160                 165                 170
Leu Pro Asp Tyr Pro Gly Ser Val Pro Ile Pro Leu Thr Val Tyr Cys
            175                 180                 185
Ala Lys Ser Gln Asn Leu Gly Tyr Tyr Leu Ser Gly Thr Thr Ala Asp
        190                 195                 200
Ala Gly Asn Ser Ile Phe Thr Asn Thr Ala Ser Phe Ser Pro Ala Gln
    205                 210                 215
Gly Val Gly Val Gln Leu Thr Arg Asn Gly Thr Ile Ile Pro Ala Asn
220                 225                 230                 235
Asn Thr Val Ser Leu Gly Ala Val Gly Thr Ser Ala Val Ser Leu Gly
                240                 245                 250
Leu Thr Ala Asn Tyr Ala Arg Thr Gly Gly Gln Val Thr Ala Gly Asn
            255                 260                 265
Val Gln Ser Ile Ile Gly Val Thr Phe Val Tyr Gln
        270                 275
```

FIG.1D

FIG.2A

Asp
Asn135
Gln133
Asp140
Asn46
O4
O3
O6
O1
W1
C1
Ile52
Asp47
Tyr48
Phe1
Ile13
Phe142

FIG.2B

Phe142
W1
Phe1
Asp47
Asn46
Asp54
Asn135
Gln 133
Asp140
Phe142
W1
Phe1
Asp47
Asn46
Asp54
Asn135
Gln 133
Asp140

FIG.2C

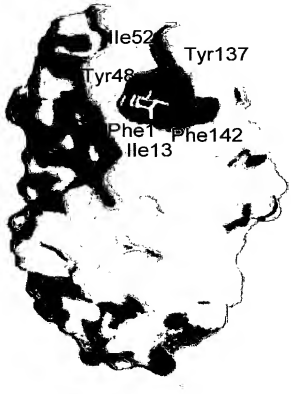


FIG.2D

Ile52
Asp54
Asn135
Asn46
Asp140
Gln133
Tyr48
Asp47
Ile13
Phe1
Phe142
1
2
3
4
5
6
10
11
4b
6

FIG.2E

1 13 26 27 42 44 54 62 66 70 74 76 78 110 118 119 126 132 142
F I P V I CHNDYPETTTD S G N T K S P V A I RQTNNYNSDDF
J96
EC45
B217
DS17
B212
EC42
B210
B228
B238
B240
B242
EC58
EC60
EC61
EC80
EC95
EC189

FIG.3

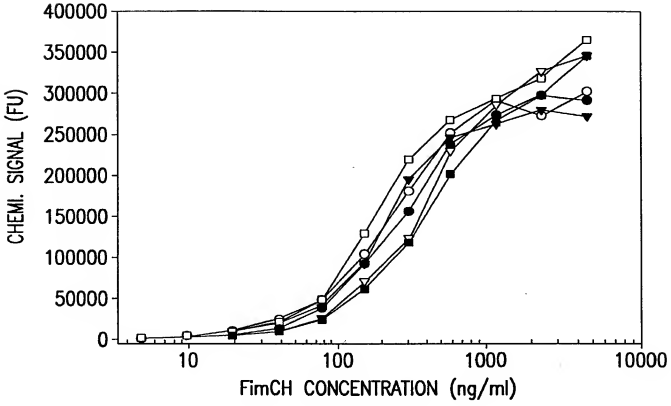

400000
350000
300000
250000
200000
150000
100000
50000
0
CHEMI. SIGNAL (FU)
10
100
1000
10000
FimCH CONCENTRATION (ng/ml)

FIG.4


Wt
N46A
N46D
D45A
D54N
Q133A
Q133K
Q133N
N135A
N135D
D140A
D140E
D140N
S62A
Bound
Eluted
FimH
FimC
FimH
FimC

FIG.5A

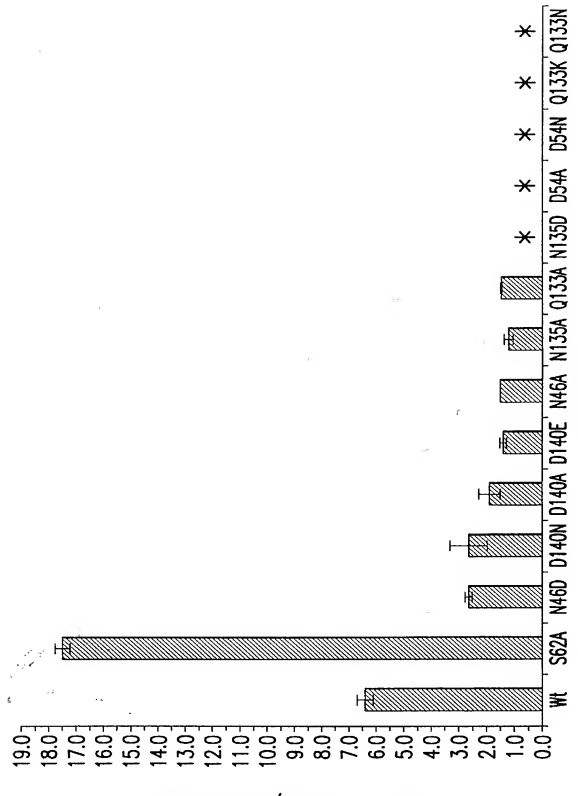

RATIO OF BOUND/ELUTED FimH
19.0
18.0
17.0
16.0
15.0
14.0
13.0
12.0
11.0
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Wt
S62A
N46D
D140N
D140A
D140E
N46A
N135A
Q133A
N135D
D54A
D54N
Q133K
Q133N

FIG.5B

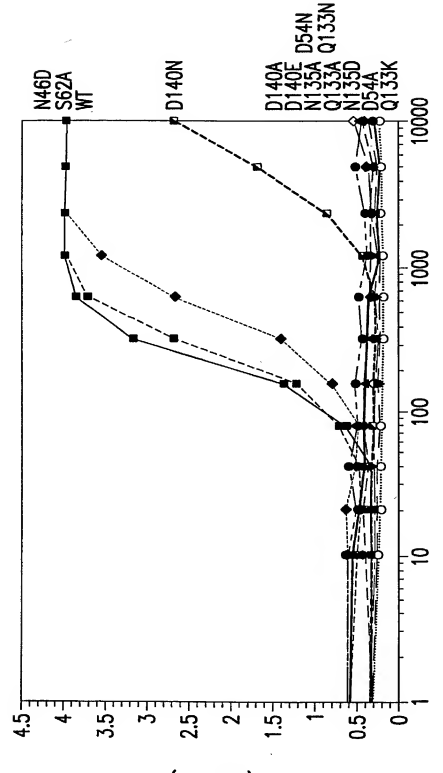

N46D
S62A
WT
D140N
D140A
D140E
N135A
Q133A
N135D
D54A
Q133K
D54N
Q133N
OD (450 nm)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
10
100
1000
10000
FimCH (ng/ml)

FIG.6A-1

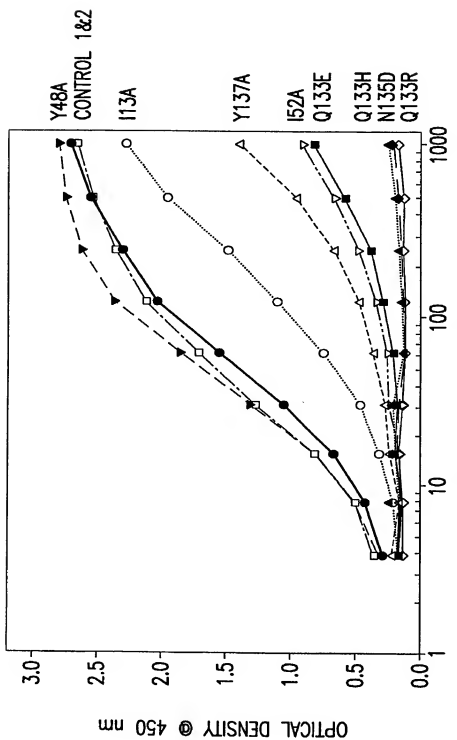

Y48A
CONTROL 1&2
I13A
Y137A
I52A
Q133E
Q133H
N135D
Q133R
OPTICAL DENSITY @ 450 nm
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1
10
100
1000
CONCENTRATION (μg/ml)

FIG.6A-2

OD (450 nm)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
10
100
1000
10000
FimCH (ng/ml)
WT
N46D
S62A
D140N
D140E
D140A
N135A
Q133A
N135D
D54A
Q133N
Q133K
D54N

FIG.6B-1

OPTICAL DENSITY @ 450 nm
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1
10
100
1000
CONCENTRATION (μg/ml)
CONTROL 1&2
Y48A
Y137A
I13A
Q133E
I52A
Q133H N135D
Q133R

FIG.6B-2

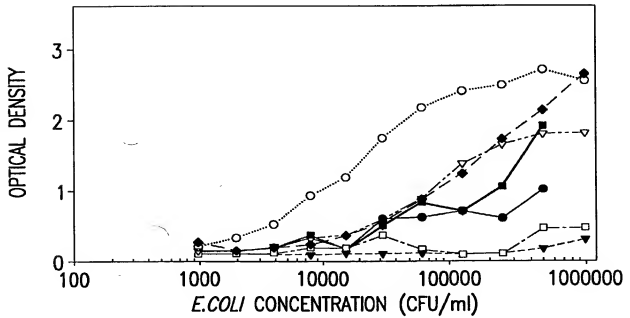

OPTICAL DENSITY
0
1
2
3
100
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7A

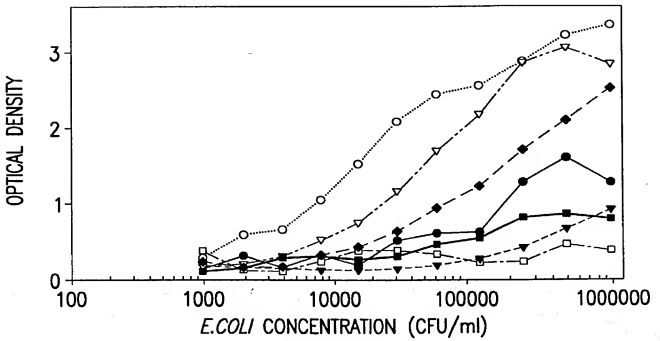

OPTICAL DENSITY
0
1
2
3
100
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7B

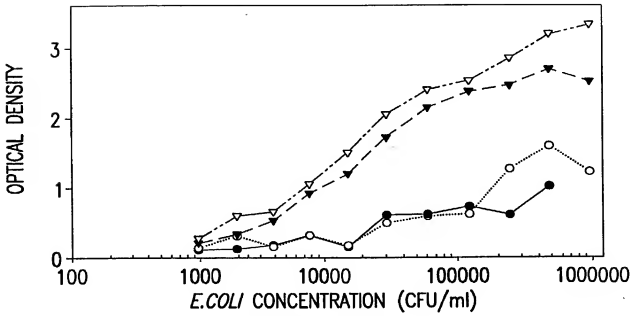

OPTICAL DENSITY
0
1
2
3
100
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7C

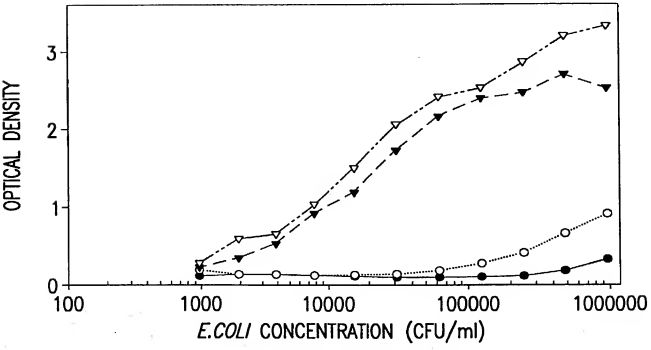

OPTICAL DENSITY
0
1
2
3
100
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7D

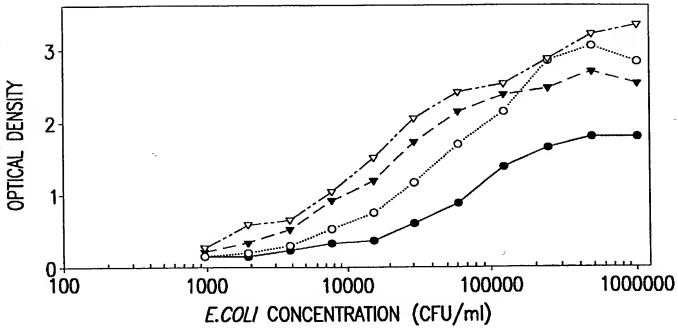

OPTICAL DENSITY
0
1
2
3
100
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7E

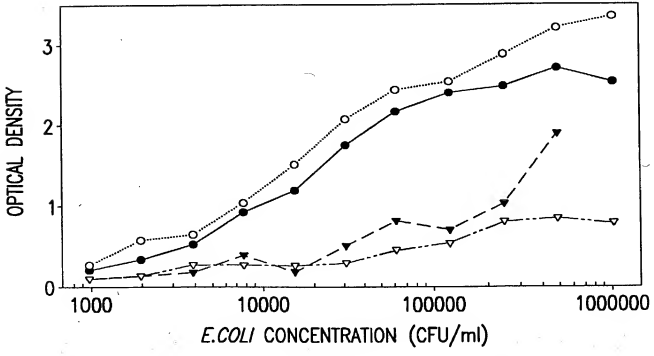

OPTICAL DENSITY
0
1
2
3
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7F

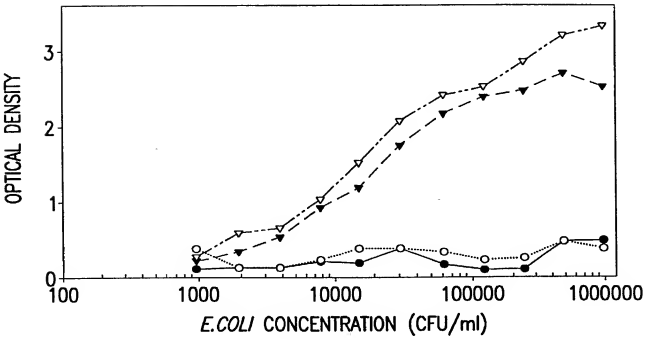

OPTICAL DENSITY
0
1
2
3
100
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7G

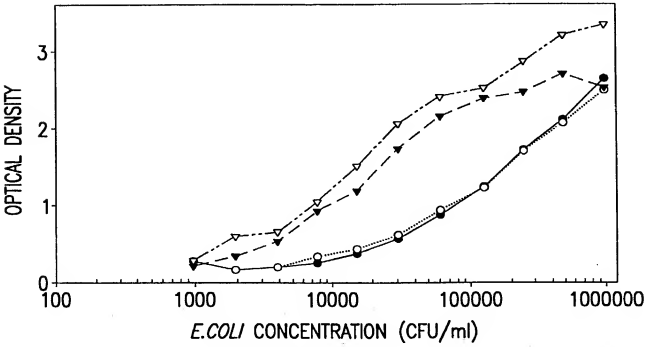

OPTICAL DENSITY
0
1
2
3
100
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7H

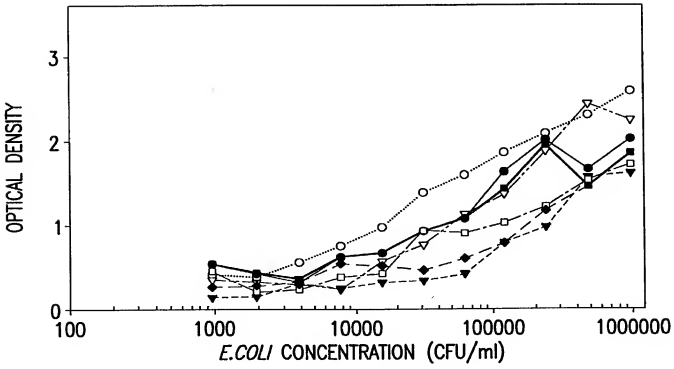
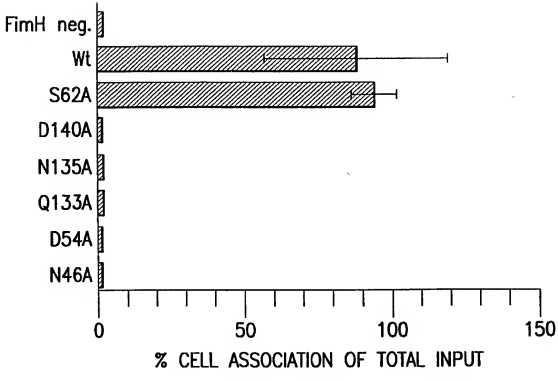

OPTICAL DENSITY
3
2
1
0
100
1000
10000
100000
1000000
E.COLI CONCENTRATION (CFU/ml)

FIG.7I


FimH neg.
Wt
S62A
D140A
N135A
Q133A
D54A
N46A
0
50
100
150
% CELL ASSOCIATION OF TOTAL INPUT

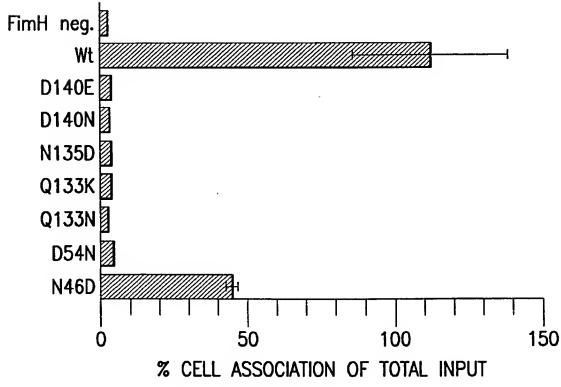

FimH neg.
Wt
D140E
D140N
N135D
Q133K
Q133N
D54N
N46D
0
50
100
150
% CELL ASSOCIATION OF TOTAL INPUT

FIG.8A

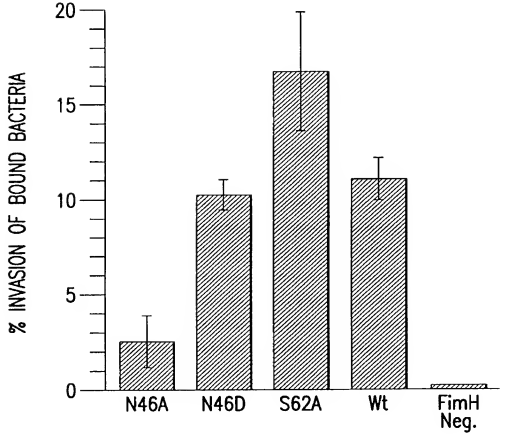

% INVASION OF BOUND BACTERIA
20
15
10
5
0
N46A
N46D
S62A
Wt
FimH Neg.

FIG.8B

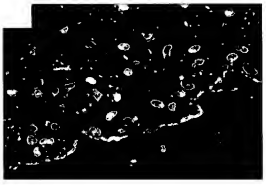


FIG.9A

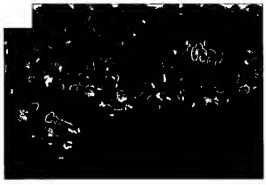


FIG.9B

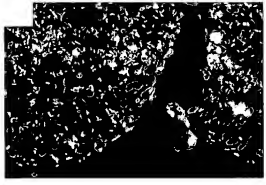


FIG.9C

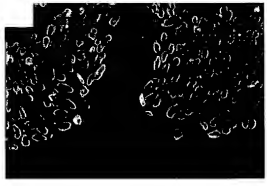


FIG.9D

FIG.9E

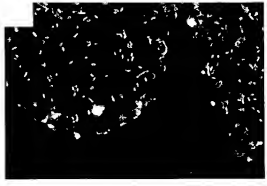


FIG.9F

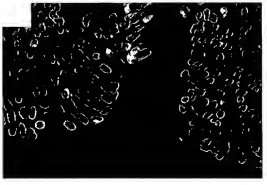


FIG.9G

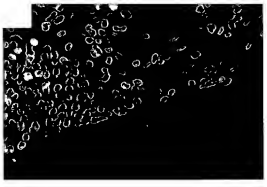


FIG.9H

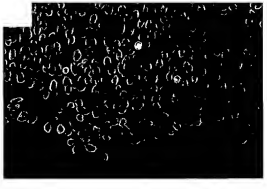


FIG.9I

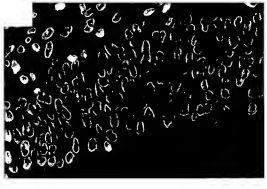


FIG.9J

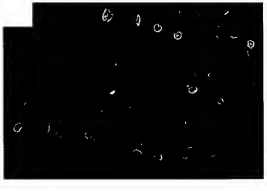


FIG.9K

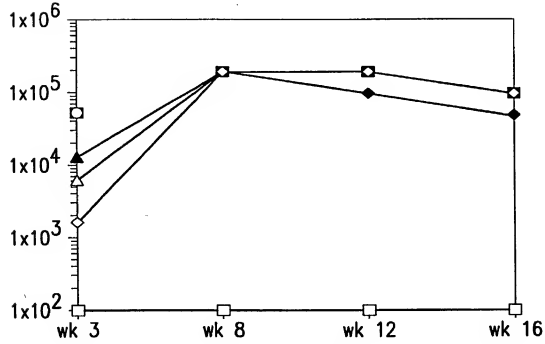


FIG.10A

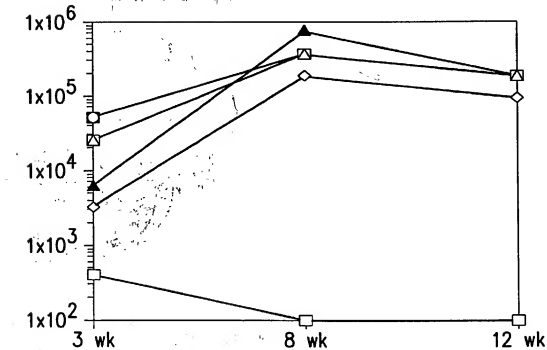


FIG.10B

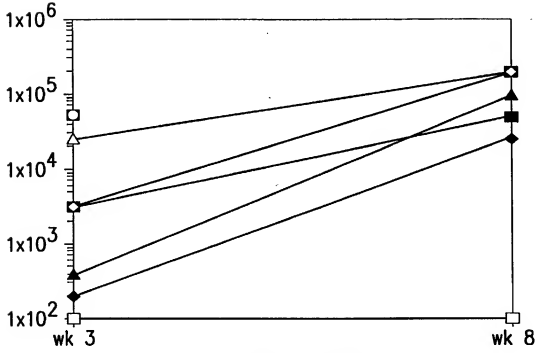


FIG.10C

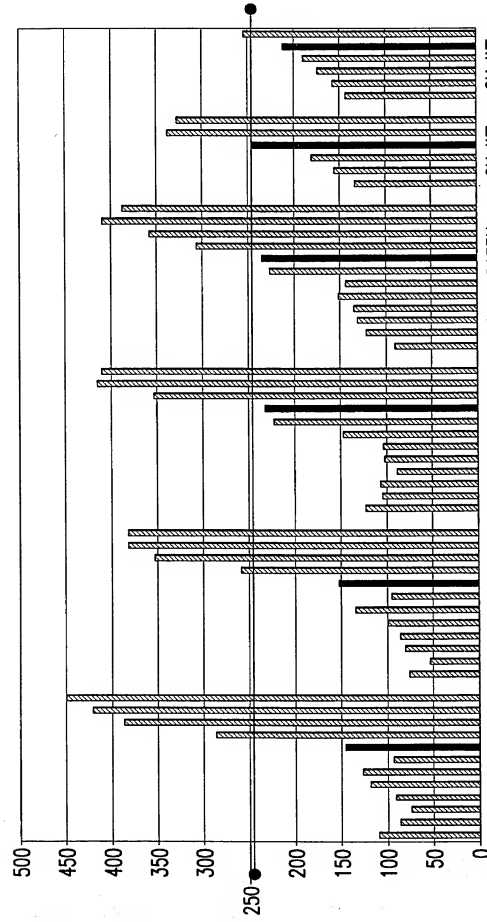

MCF
500
450
400
350
300
250
200
150
100
50
0
4 µg Q133E 1:6,400
4 µg Q133E 1:6,400
4 µg Q133H 1:12,800
4 µg Q133H 1:6,400
CH WT 1:400
CH WT 1:800

FIG.11A

MCF
450
400
350
300
250
200
150
100
50
0
MF59 CNTRL <1:50
MF59 CNTRL <1:50
NO INJECTION CNTRL <1:50
NO INJECTION CNTRL <1:50

FIG.11B

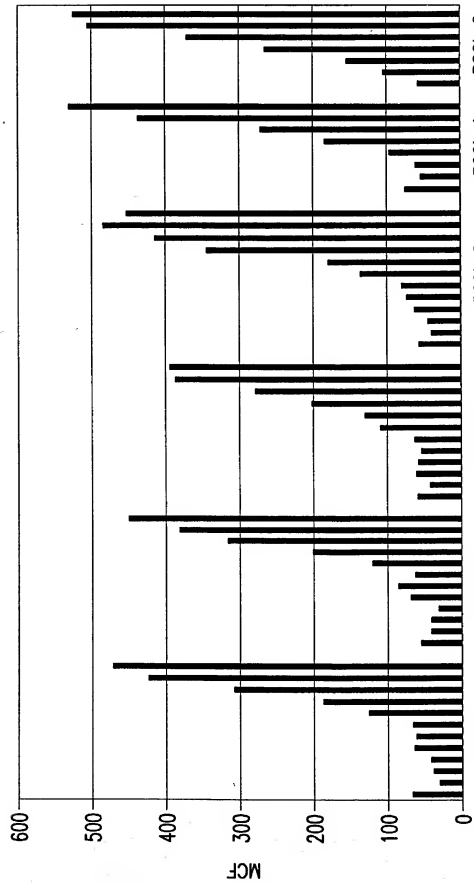

MCF
600
500
400
300
200
100
0
POOL 1
POOL 2
POOL 1
POOL 2
POOL 1
POOL 2
N135D
Q133R
WT

FIG.11C

MCF
600
500
400
300
200
100
0
POOL 1
MF59 CONTROL
POOL 2
POOL 1
NO INJECTION CONTROL
POOL 2

FIG.11D

MCF/GEOMEAR.
0
100
200
300
400
500
600
J82
U14
U14
U14
NRS 1:50
ANTI 13 1:50
ANTI 13 1:50
4 µg Fim CH N46D 1:50
1:100
1:200
1:400
1:800
1:1600
IC 50 = 255
1.6 µg Fim CH DN46D 1:50
1:100
1:200
1:400
1:800
1:1600
0.64 µg Fim CH N46D 1:50
1:100
1:200
1:400
1:800
1:1600
0.26 µg Fim CH N46D 1:50
1:100
1:200
1:400
1:800
1:1600
4 µg Fim CH LOT 071299 1:50
1:100
1:200
1:400
1:800
1:1600
1.6 µg Fim CH LOT 071299 1:50
1:100
1:200
1:400
1:800
1:1600
0.64 µg Fim CH LOT 071299 1:50
1:100
1:200
1:400
1:800
1:1600
0.26 µg Fim CH LOT 071299 1:50
1:100
1:200
1:400
1:800
1:1600
MF 59 1:50
1:100
1:200
1:400
1:800
1:1600

FIG.12A

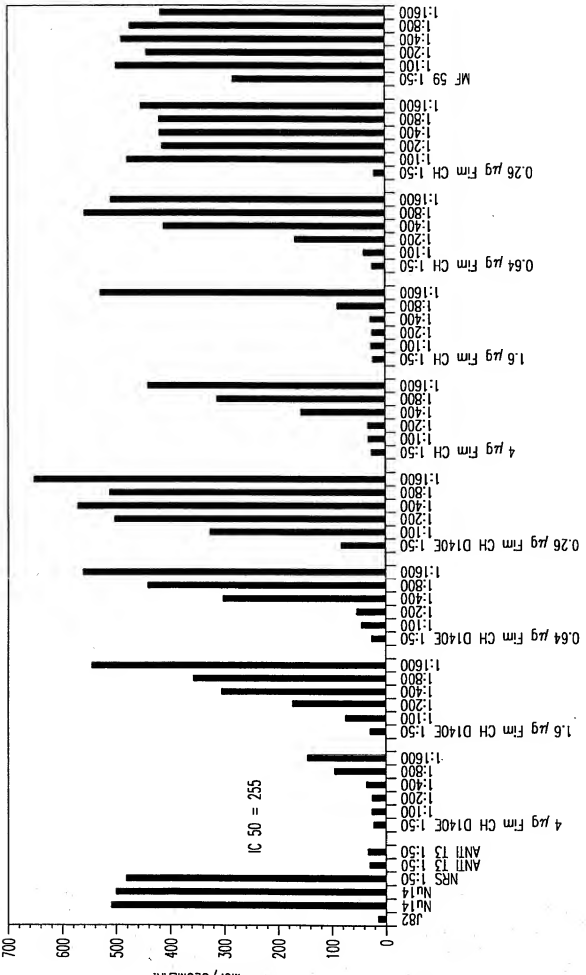

MCF/GEOMEAR.
0
100
200
300
400
500
600
700
J82
Nu14
Nu14
NRS 1:50
ANTI 13 1:50
ANTI 13 1:50
4 µg FimCH D140E 1:50
1:100
1:200
1:400
1:800
1:1600
IC 50 = 255
1.6 µg FimCH D140E 1:50
1:100
1:200
1:400
1:800
1:1600
0.64 µg FimCH D140E 1:50
1:100
1:200
1:400
1:800
1:1600
0.26 µg FimCH D140E 1:50
1:100
1:200
1:400
1:800
1:1600
4 µg FimCH 1:50
1:100
1:200
1:400
1:800
1:1600
1.6 µg FimCH 1:50
1:100
1:200
1:400
1:800
1:1600
0.64 µg FimCH 1:50
1:100
1:200
1:400
1:800
1:1600
0.26 µg FimCH 1:50
1:100
1:200
1:400
1:800
1:1600
MF 59 1:50
1:100
1:200
1:400
1:800
1:1600

FIG.12B

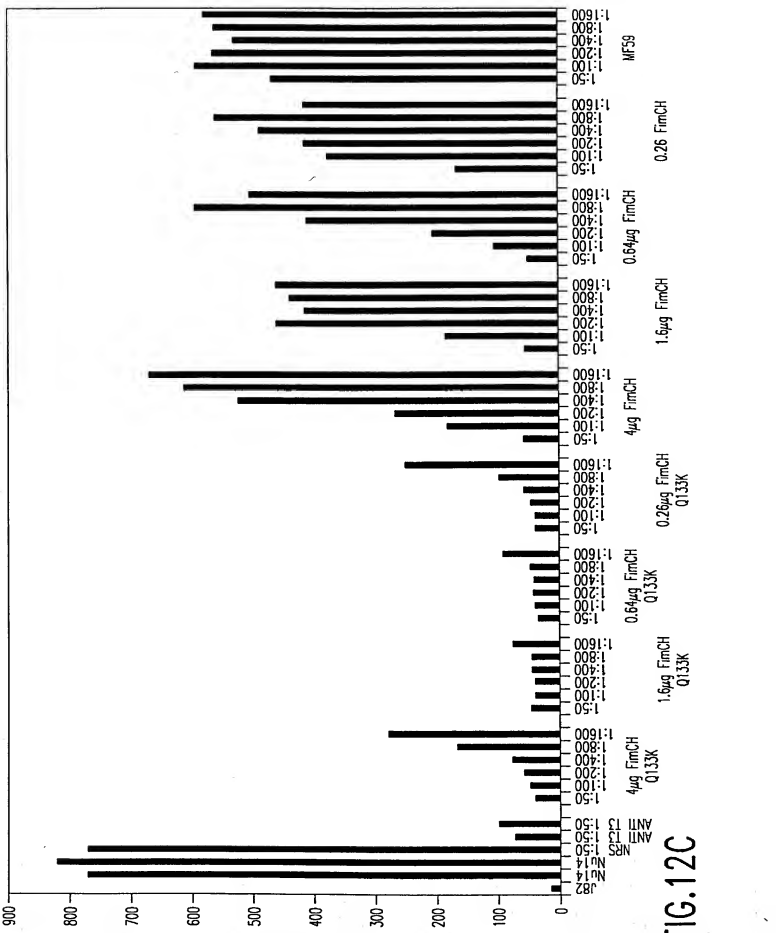

MCF/GEOMEAN
900
800
700
600
500
400
300
200
100
0
JB2
NU14
NU14
NR5
ANTI T3
ANTI T3
ANTI T3
1:50
1:100
1:200
1:400
1:800
1:1600
4µg FimCH Q133K
1.6µg FimCH Q133K
0.64µg FimCH Q133K
0.26µg FimCH Q133K
4µg FimCH
1.6µg FimCH
0.64µg FimCH
0.26 FimCH
MF59

FIG.12C

MCF
0
100
200
300
400
500
600
700
800
4 µg Fim CH WT 1:50
1:100
1:200
1:400
1:800
1:1600
1:3200
1:6400
1.6 µg Fim CH WT 1:50
1:100
1:200
1:400
1:800
1:1600
1:3200
1:6400
0.64 µg Fim CH WT 1:50
1:100
1:200
1:400
1:800
1:1600
1:3200
1:6400
0.26 µg Fim CH WT 1:50
1:100
1:200
1:400
1:800
1:1600
1:3200
1:6400
MF 59 1:50
1:100
1:200
1:400

FIG.12D

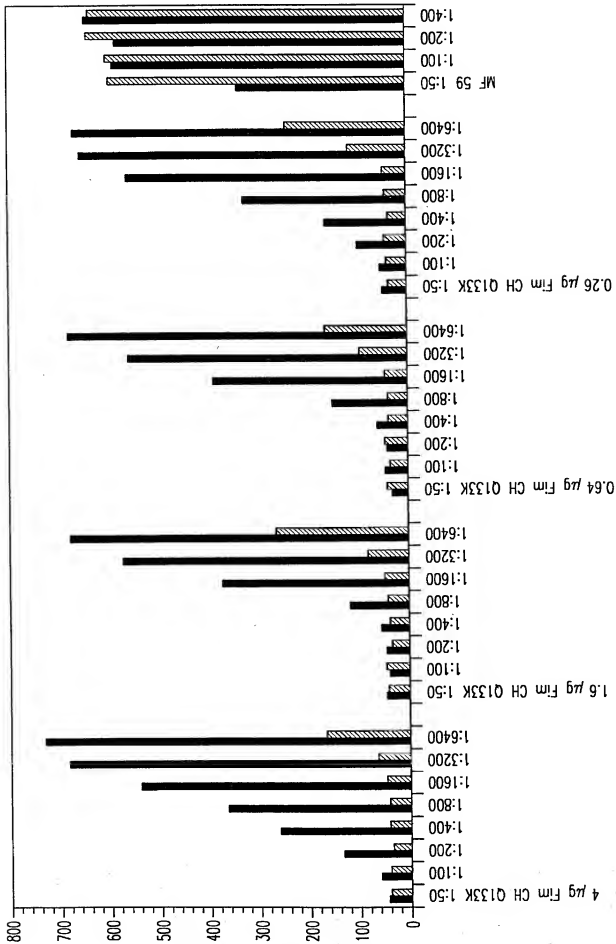

MCF
0
100
200
300
400
500
600
700
800
4 µg FimCH Q133K 1:50
1:100
1:200
1:400
1:800
1:1600
1:3200
1:6400
1.6 µg FimCH Q133K 1:50
1:100
1:200
1:400
1:800
1:1600
1:3200
1:6400
0.64 µg FimCH Q133K 1:50
1:100
1:200
1:400
1:800
1:1600
1:3200
1:6400
0.26 µg FimCH Q133K 1:50
1:100
1:200
1:400
1:800
1:1600
1:3200
1:6400
MF 59 1:50
1:100
1:200
1:400

FIG.12E

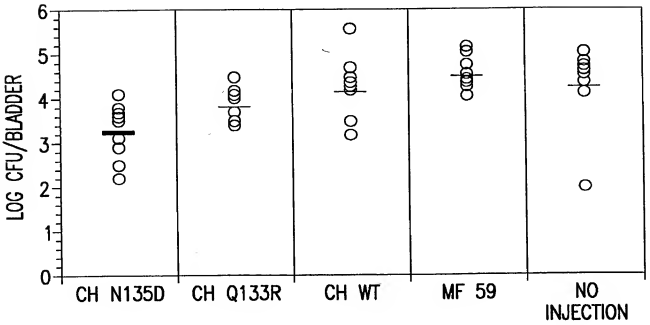

LOG CFU/BLADDER
0
1
2
3
4
5
6
CH N135D
CH Q133R
CH WT
MF 59
NO INJECTION

FIG.13

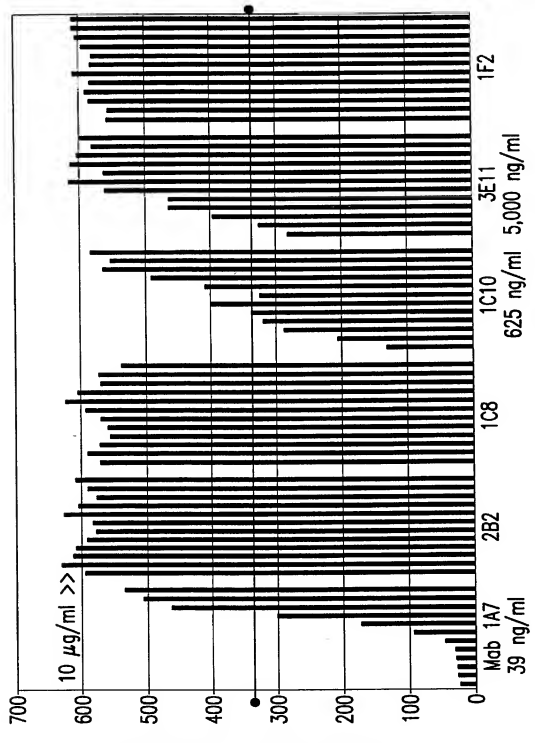

MEAN CHANNEL FLUORESCENCE
700
600
500
400
300
200
100
0
10 µg/ml >>
Mab 1A7
39 ng/ml
2B2
1C8
1C10
625 ng/ml
3E11
5,000 ng/ml
1F2

FIG.14

MEAN CHANNEL FLUORESCENCE
250
200
150
100
50
0
40 µg/ml
10 µg/ml
2.5 µg/ml
625 ng/ml
156 ng/ml
39 ng/ml

FIG.15A

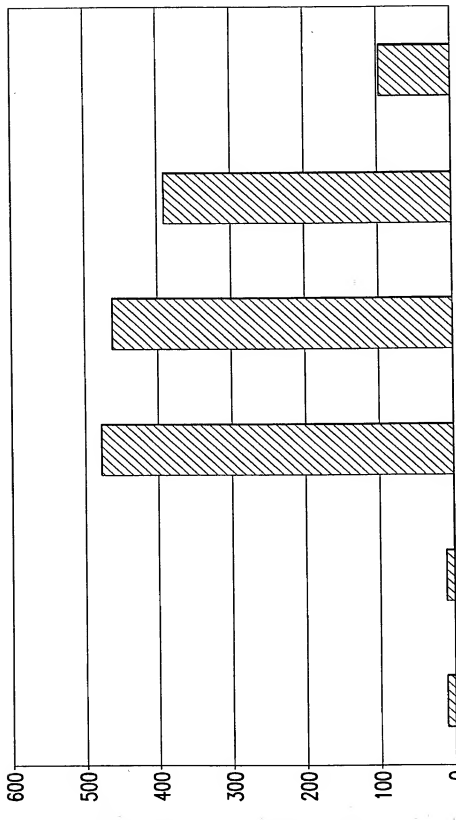

MEAN CHANNEL FLUORESCENCE
600
500
400
300
200
100
0
GP RBC's
GP RBC's
NU14
NU14
PREIMMUNE
ANTI-T3

FIG.15B

OPTICAL DENSITY AT 450 nm
0
1
2
3
10
100
1000
10000
100000
MONOCLONAL Ab CONCENTRATION (ng/ml)

FIG.16

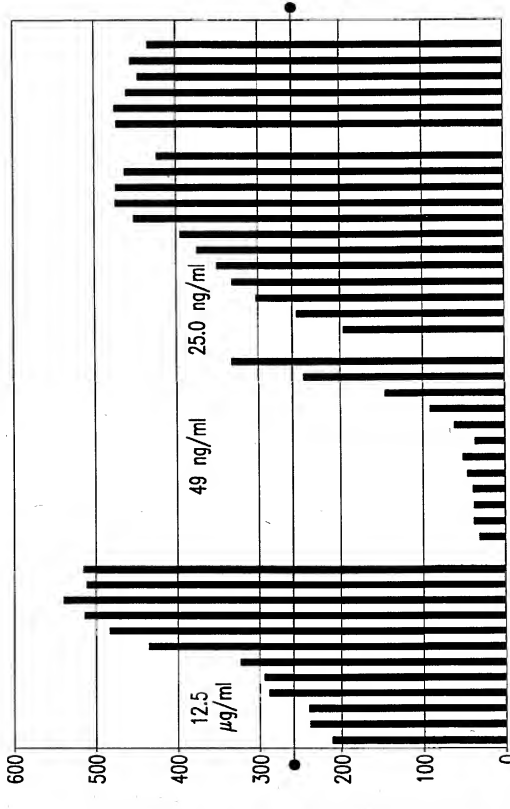

MEAN CHANNEL FLUORESCENCE
600
500
400
300
200
100
0
12.5 µg/ml
49 ng/ml
25.0 ng/ml
Mab 463
Fab 1A7
Fab 1C10
Fab 1F2

FIG.17

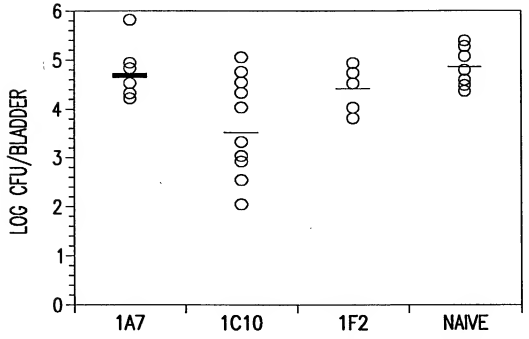


FIG.18

FIG.19A

FIG.19B